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AMENDMENTS TO THE CLAIMS

1-12. (Cancelled)

13. (Previously Presented) A harmful substance decomposer including a catalyst supported on a silk burned product, which is formed by burning and carbonizing a silk material at temperature of 1,000 °C or below.

14. (Previously Presented) The harmful substance decomposer according to claim 13, wherein said silk burned product includes 18-35 wt% of nitrogen elements.

- 15. (Previously Presented) The harmful substance decomposer according to claim 13, wherein said silk burned product is activation-treated so as to form many micro fine holes in a surface thereof.
- 16. (Previously Presented) The harmful substance decomposer according to claim 14, wherein said silk burned product is activation-treated so as to form many micro fine holes in a surface thereof.
- 17. (Previously Presented) The harmful substance decomposer according to one of claims 13, wherein said catalyst is platinum.

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18. (Currently Amended) The harmful substance decomposer according to one of claims claim 13, wherein said catalyst is phthalocyanine.

- 19. (Currently Amended) The harmful substance decomposer according to one of claims claim 13, wherein said catalyst is titanium oxide.
- 20. (Previously Presented) The harmful substance decomposer according to claim 17, wherein electrodes are provided to both ends.
 - 21. (Currently Amended) A method of producing a harmful substance decomposer, comprising the steps of:

primary-burning a silk material with temperature rising rate of 100 □ C/hour or less until reaching a first temperature and maintaining the first temperature for several hours;

secondary-burning the silk material with temperature rising rate of 100 °C/hour or less until reaching a second temperature, which is higher than the first temperature and which is 1,000 °C or below, and maintaining the second temperature for several hours;

cooling the silk material, which has been secondary-burned, until reaching the room temperature; and

supporting a catalyst on the silk material, which has been secondary-burned, wherein said steps are performed in an inert gas atmosphere.

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22. (Previously Presented) The method according to claim 21, wherein the silk material, which has been primary-burned, is once cooled until reaching the room temperature, then the silk material is secondary-burned.

- 23. (Previously Presented) The method according to claim 21, wherein the catalyst is platinum, phthalocyanine or titanium oxide.
- 24. (Previously Presented) The method according to claim 21, wherein the temperature rising rate in the primary-burning step and the secondary-burning step is 50 °C/hour or less.
- 25. (Previously Presented) The method according to claim 21, further comprising the step of exposing the silk material, which has been secondary-burned, to high-temperature steam as an activation treatment.